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(54) CODE MULTIPLEX TRANSMISSION DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To make the peak value of the pilot signal part of a code multiplex signal.

SOLUTION: Phase shifters 65 of spread modulation parts 511 to 51n of respective channels shift the phase of the signal point position vector of a spread modulated signal by a predetermined angle. For example, the phase shifter 65 of an (i)th channel shifts the phase of the signal point position vector by a phase shift quantity θ of $360^\circ \cdot i/N$, where N is the number of channels. In case of QPSK spread modulation, the signal point position vector is shifted in phase by a phase shift quantity θ of $(\pi/2) \cdot \text{mod}(i, 4)$. Here, $\text{mod}(i, 4)$ is the remainder obtained by dividing (i) by 4. The phase of the pilot signal part of the spread modulated signal outputted from a spread modulation part of each channel is dispersed shifting in phase to suppress the peak value of the code multiplex signal.

